

REMARKS

Claims 1-32 are pending in the application. Claim 1 has been amended. No new matter has been added. The applicant respectfully requests reconsideration in view of the amendments and the following remarks.

The applicant wishes to thank the examiner for the detailed treatment of the claims.

I. The § 102 Rejections

Claims 1-3, 8-15, 20-26 and 31-32 stand rejected under 35 USC §102(b) as being anticipated by U.S. Patent No. 5,655,081 ("Bonnell"). The applicant respectfully traverses.

Bonnell discloses a system for monitoring and managing applications and resources on a distributed computer network. (See abstract.) At least one of the networked computer systems is designated as a network management computer system or a "console" system -- i.e., the network management computer systems act as consoles for monitoring and managing resources present on server computer systems in the network. (Col. 6, ll. 64-67.)

An agent software system is installed on and runs on each of the server computer systems in the network. Each respective agent software system carries out tasks on the computer system in which it is installed such as discovering which resources and applications are present on the computer system, monitoring particular aspects of the resources and applications present on the computer system, and executing recovery actions automatically when such actions are warranted. (Col. 6-7, ll. 67-8.)

In operation, consoles register with the agents, telling the agents which resources, parameters and events the console is interested in receiving information about. In response, the agent continually monitors the state of each resource registered to be monitored, as well as the state of certain default resources that are always to be monitored, and maintains a historical log both of events that have occurred and also of the values of individual parameters relevant to the resources. The agent also sends messages to each console registered to receive information, based on the console's registration information. (Col. 7, ll. 15-31.)

Amended claim 1 recites a system for managing network resources. The system includes a network management server that requests that a network device execute a task related to the

management of resources associated with network. The system also includes a network device that is operable to access local network parameters associated with the network device and access remote network parameters associated with a remote network device while executing the task related to the management of resources associated with the network.

The applicant respectfully submits that Bonnell neither teaches nor suggests a system for managing network resources that includes a network device that is operable to access local network parameters associated with the network device, and access remote network parameters associated with a remote network device, while executing the task related to the management of resources associated with the network requested by the network management server.

Instead, as described above, Bonnell teaches that consoles register with agents, telling the agents which resources, parameters, and events that the console is interested in receiving. In response, each respective agent provides the monitoring services required by the consoles' registrations. That is, each respective agent monitors only those particular resources, parameters, and applications present on the computer system on which the agent is installed (emphasis added). (Col. 7, ll. 14-31.) Thus, Bonnell fails to teach a system for managing network resources that includes a network device that is operable to access remote network parameters associated with a remote network device, while executing the task related to the management of resources associated with the network requested by the network management server.

Claims 2-3 and 8-10 depend from claim 1 and are allowable for at least that reason.

Claim 11 recites receiving a request on a network device to execute a task that performs a set of operations related to managing the network; receiving an application over the network wherein the application includes operations for performing the task; processing operations on the network device that requests network parameters from a remote network device; transmitting the request for the network parameter over the network to the remote network; and receiving the requested network parameter over the network from the remote network device.

As described above, Bonnell neither teaches nor suggests processing operations on a network device that requests network parameters from a remote network device. Each of the agents in Bonnell's system monitors only parameters associated with the system on which the agent is installed. The applicant respectfully submits that claim 11 is in allowable condition.

Claims 12-15 and 20-21 depend from claim 11 and are allowable for at least that reason.

Claim 22 recites an apparatus for distributing network management of a network to network devices. The apparatus includes a memory containing instructions that when executed cause a processor to process operations on the network device that requests network parameters from a remote network device. Claim 22 is allowable for similar reason as discussed above in connection with claim 11.

Claims 23-26 depend from claim 22 and are allowable for at least that reason.

Claims 31 and 32 are an apparatus claim and computer program product claim corresponding to claim 11. Claims 31 and 32 are allowable for similar reasons as discussed above in connection with claim 11.

II. The § 103 Rejections

Claims 4-7, 16-19 and 27-30 stand rejected under 35 USC § 103(a) as being unpatentable over Bonnell in view of *Infrastructure for Advanced Network Management based on Mobile Code* ("Susilo"). The applicant respectfully traverses.

Claim 4 incorporates the limitations of claim 1 and further recites a system for managing network resources that includes a network device that executes a task related to the management of resources associated with the network, in which the task includes operations compatible with an object-oriented programming language.

Claim 5 incorporates the limitations of claim 1 and further recites a system for managing network resources that includes a network device that executes a task related to the management of resources associated with the network, in which the task includes operations compatible with byte-codes executable on a virtual machine.

Claim 6 incorporates the limitations of claims 1 and 5, and further recites a system for managing network resources that includes a network device that executes a task related to the management of resources associated with the network, in which the task includes operations compatible with byte-codes executable on a virtual machine that is compatible with the Java Virtual Machine.

Claim 7 incorporates the limitations of claim 1 and further recites a system for managing network resources that includes a network device that executes a task related to the management of resources associated with the network, in which the task includes operations compatible with the Java object-oriented programming language.

Putting aside the issue of whether Susilo teaches the specific limitations of claims 4-7, it is clear that Susilo fails to remedy the deficiencies of Bonnell. That is, Susilo does not disclose a system for managing network resources that includes a network device that is operable to access local network parameters associated with the network device, and access remote network parameters associated with a remote network device, while executing the task related to the management of resources associated with the network requested by the network management server.

Therefore, the combination of Bonnell and Susilo fails to teach or suggest a system for managing network resources that includes a network device that is operable to access local network parameters associated with the network device, and access remote network parameters associated with a remote network device, while executing the task related to the management of resources associated with the network requested by the network management server, as required by claims 1 and each of 4-7.

Claim 16 incorporates the limitations of claim 11, and further recites receiving a request on a network device to execute a task that performs a set of operations related to managing the network, in which task includes operations compatible with an object-oriented programming language.

Claim 17 incorporates the limitations of claim 11, and further recites receiving a request on a network device to execute a task that performs a set of operations related to managing the network, in which task includes operations compatible with byte-codes executable on a virtual machine.

Claim 18 incorporates the limitations of claims 11 and 17, and further recites receiving a request on a network device to execute a task that performs a set of operations related to managing the network, in which task includes operations compatible with byte-codes executable on a virtual machine that is compatible with the Java Virtual Machine.

Claim 19 incorporates the limitations of claim 11, and further recites receiving a request on a network device to execute a task that performs a set of operations related to managing the network, in which task includes operations compatible with the Java object-oriented programming language.

Putting aside the issue of whether Susilo teaches the limitations of claims 16-19, as with Bonnell, Susilo fails to disclose processing operations on a network device that requests network parameters from a remote network device. Therefore, the combination of Bonnell and Susilo fails to teach or suggest processing operations on a network device that requests network parameters from a remote network device, as required by claims 11 and each of claims 16-19.

Claim 27 incorporates the limitations of claim 22, and further recites an apparatus for distributing network management of a network to network devices, the apparatus includes a processor that executes instructions compatible with a network management protocol.

Claim 28 incorporates the limitations of claim 22, and further recites an apparatus for distributing network management of a network to network devices, the apparatus includes a processor that executes instructions compatible with byte-codes executable on a virtual machine.

Claim 29 incorporates the limitations of claim 22 and 28, and further recites an apparatus for distributing network management of a network to network devices, the apparatus includes a processor that executes instructions compatible with byte-codes executable on a virtual machine that is compatible with the Java Virtual Machine.

Claim 30 incorporates the limitations of claim 22, and further recites an apparatus for distributing network management of a network to network devices, the apparatus includes a processor that executes instructions compatible with the Java object-oriented programming language.

Putting aside the issue of whether Susilo teaches the limitations of claims 27-30, as with Bonnell, Susilo fails to disclose a memory containing instructions that when executed cause the processor to process operations on the network device that requests network parameters from a remote network device. Therefore, the combination of Bonnell and Susilo fails to teach or suggest a memory containing instructions that when executed cause the processor to process operations on the network device that requests network parameters from a remote network device, as required by claims 22 and each of claims 27-30.